

CLAIMS

What is claimed is:

1. A file for use in a radio-frequency identification (RFID) system, the file comprising:
 - a body including a pair of covers; and
 - a transponder assembly including:
 - a substrate having a pair of sides;
 - an antenna disposed on one of the sides of the substrate;
 - a circuit coupled to the antenna and having an identifier code; and
 - an adhesive layer disposed on the other the side of the substrate;the transponder assembly being attached to one of the covers by the adhesive.
2. A file for use in a radio-frequency identification (RFID) system, the file comprising:
 - a body including a pair of covers; and
 - a transponder assembly including:
 - an antenna embedded on one of the covers; and
 - a circuit coupled to the antenna and having an identifier code.
3. A system for tracking objects at a site having a plurality of locations, the system comprising:
 - a plurality of antenna arrays each for generating an energizing field, each of the antenna arrays being disposed at or near one of the locations;
 - a plurality of files each including:
 - a body including a pair of covers; and
 - a transponder assembly including:
 - a substrate having a pair of sides;
 - an antenna disposed on one of the sides of the substrate;
 - a circuit coupled to the antenna and having an identifier code; and
 - an adhesive layer disposed on the other the side of the substrate;the transponder assembly being attached to one of the covers by the adhesive;
the identifier code being unique for each of the files;
each of the transponder assemblies being activated by the energizing field and

responsively transmitting a signal indicative of the identifier code;

a reader in communication with the antenna arrays for receiving the signal when one of transponder assemblies is activated by one of the antenna arrays; and

an administrator in communication with the reader for receiving information from the reader indicative of the location of the file associated with the transponder assembly transmitting the signal.

4. A transponder label assembly comprising:

a transponder assembly including:

a substrate having a pair of sides;

an antenna disposed on one of the sides of the substrate;

a transponder circuit coupled to the antenna and having an identifier code; and

an adhesive layer disposed on the other the side of the substrate;

a backing sheet releasably attached to the adhesive layer of the transponder assembly.

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